

Appl. No. 10/615,680
Amdt. Dated January 11, 2005
Reply to Office Action of October 15, 2004

Attorney Docket No. 81872.0048
Customer No.: 26021

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently amended): An apparatus, comprising:
a connecting conductor pattern formed on a substrate;
a device electrode pad formed on an electronic device; and
a plurality of wire thin lines respectively connecting a plurality of portions on the connecting conductor pattern on the substrate and a plurality of portions on the device electrode pad on the electronic device, wherein the plurality of wire thin lines differ from one another in mechanical characteristic frequencies in their connected states such that when one of the plurality of wire thin lines resonates with exterior vibrations and breaks, others of the plurality of wire thin lines do not resonate.
2. (Currently amended): ~~The apparatus according to claim 1~~
An apparatus, comprising:
a connecting conductor pattern formed on a substrate;
a device electrode pad formed on an electronic device; and
a plurality of wire thin lines respectively connecting a plurality of portions on the connecting conductor pattern on the substrate and a plurality of portions on the device electrode pad on the electronic device,
wherein the plurality of wire thin lines differ from one another in mechanical characteristic frequencies in their connected states,
wherein the mechanical characteristic frequency of one of the plurality of wire thin lines is basically a frequency other than n (n being a natural number)

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times or $1/n$ times the mechanical characteristic frequency of the other wire thin lines.

3. (Previously presented): The apparatus according to claim 1, wherein the plurality of wire thin lines differ from one another in at least one of a length, a line diameter, and material.

4. (Original): The apparatus according to claim 1, which is used as an in-vehicle part.

5. (Currently amended): An apparatus comprising:
a connecting conductor pattern formed on a substrate;
a device electrode pad formed on an electronic device; and
means for connecting a plurality of portions on the connecting conductor pattern on the substrate and a plurality of portions on the device electrode pad on the electronic device, wherein the means for connecting differ in mechanical characteristic frequencies in a connected states such that when one of the means for connecting resonates with external vibrations and breaks, others of the means for connecting do not resonate.

6 (Currently amended): A manufacturing method for a carrying electronic device, comprising:
forming a connecting conductor pattern on a substrate;
forming a device electrode pad on an electronic device;
connecting a plurality of portions on the connecting conductor pattern on the substrate and a plurality of portions on the device electrode pad on the electronic device with a plurality of wire thin lines; and

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arranging the plurality of thin lines such that the plurality of thin lines differ from one another in mechanical characteristic frequencies in their connected states such that when one of the plurality of thin lines resonates with external vibrations and breaks, others of the plurality of thin lines do not resonate.

7. (Previously presented): The method according to claim 6, further comprising arranging the plurality of thin lines to differ from one another in at least one of a length, a line diameter and material.

8. (Previously presented): The method according to claim 6, further comprising arranging the plurality of thin lines connecting the plurality of portions on the connecting conductor pattern and the plurality of portions on the device electrode pad parallel to each other at positions spaced apart from each other.

9. (New): The apparatus according to claim 1, wherein the mechanical characteristic frequencies of the plurality of wire thin lines differ by 10% or more.

10. (New): The method according to claim 6, wherein the mechanical characteristic frequencies of the plurality of thin lines differ by 10% or more.

11. (New): The apparatus according to claim 2, wherein the plurality of wire thin lines differ from one another in at least one of a length, a line diameter, and material.

12. (New): The apparatus according to claim 2, which is used as an in-vehicle part.

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13. (New): The apparatus according to claim 2, wherein the mechanical characteristic frequencies of the plurality of wire thin lines differ by 10% or more.